#### Amendments to the claims

### Listing of claims:

1. (Currently amended) A compound according to formula (I):

$$R^{1}$$
 $R^{1c}$ 
 $R^{1c}$ 
 $R^{1c}$ 
 $R^{1c}$ 
 $R^{1c}$ 
 $R^{1c}$ 
 $R^{1c}$ 
 $R^{1c}$ 
 $R^{1c}$ 

wherein:

 $Z_1$  is N or CR<sup>1a</sup>;

 $R^1$  and  $R^{1a}$  are independently selected from H, nitro, halogen,  $(C_{1-3})$ alkylthio,  $(C_{1-3})$ alkyl, and  $(C_{1-3})$ alkoxy optionally substituted by  $(C_{1-3})$ alkoxy; or  $R^1$  and  $R^{1a}$  are joined together to form ethylenedioxy;

R<sup>1b</sup> is H or halogen;

with the proviso that when  $Z_1$  is N, then  $R^{1b}$  is H and when  $Z_1$  is  $CR^{1a}$  then  $R^1$  is not H;

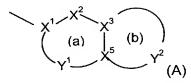
R<sup>1c</sup> is halogen;

AB is CHR<sup>6</sup>-CO or CHR<sup>6</sup>-CH<sub>2</sub>;

 $\mathsf{R}^6$  is H, NH<sub>2</sub>, -CH<sub>2</sub>OH, or hydroxy;

 $R^3$  is up to two substituents selected from H, halogen,  $(C_{1-3})$ alkyl, hydroxy $(C_{1-3})$ alkyl, CONH<sub>2</sub>, COOH, -CH<sub>2</sub>CONH<sub>2</sub>, -CH<sub>2</sub>COOH, -CONHCH<sub>3</sub>, and hydroxy in the 3-position optionally substituted by  $(C_{1-3})$ alkyl;

 ${\sf R}^4$  is a group -U-R $^5$  where  ${\sf R}^5$  is a substituted or unsubstituted bicyclic carbocyclic or heterocyclic ring system (A):



containing up to four heteroatoms in each ring in which

at least one of rings (a) and (b) is aromatic;

X<sup>1</sup> is C or N when part of an aromatic ring or CR<sup>14</sup> when part of a non aromatic ring;

 $\rm X^2$  is N, NR<sup>13</sup>, O, S(O)<sub>X</sub>, CO or CR<sup>14</sup> when part of an aromatic or non-aromatic ring or may in addition be CR<sup>14</sup>R<sup>15</sup> when part of a non aromatic ring;

X<sup>3</sup> and X<sup>5</sup> are independently N or C;

 $Y^1$  is a 0 to 4 atom linker group each atom of which is independently selected from N, NR<sup>13</sup>, O, S(O)<sub>X</sub>, CO and CR<sup>14</sup> when part of an aromatic or non-aromatic ring or may additionally be CR<sup>14</sup>R<sup>15</sup> when part of a non aromatic ring,

 $Y^2$  is a 2 to 6 atom linker group, each atom of  $Y^2$  being independently selected from N, NR<sup>13</sup>, O, S(O)<sub>X</sub>, CO and CR<sup>14</sup> when part of an aromatic or non-aromatic ring or may additionally be CR<sup>14</sup>R<sup>15</sup> when part of a non aromatic ring;

each of R<sup>14</sup> and R<sup>15</sup> is independently selected from H; (C<sub>1-4</sub>)alkylthio; halo; (C<sub>1-4</sub>)alkyl; (C<sub>2-4</sub>)alkenyl; hydroxy; hydroxy(C<sub>1-4</sub>)alkyl; mercapto(C<sub>1-4</sub>)alkyl; (C<sub>1-4</sub>)alkoxy; trifluoromethoxy; nitro; cyano; carboxy; amino or aminocarbonyl optionally substituted by (C<sub>1-4</sub>)alkyl; each R<sup>13</sup> is independently H; trifluoromethyl; (C<sub>1-4</sub>)alkyl optionally substituted by hydroxy, carboxy, (C<sub>1-4</sub>)alkoxy, (C<sub>1-6</sub>)alkylthio, halo or trifluoromethyl; (C<sub>2-4</sub>)alkenyl; or aminocarbonyl wherein the amino group is optionally substituted (C<sub>1-4</sub>)alkyl;

each x is independently 0, 1 or 2; and

U is CO, SO<sub>2</sub> or CH<sub>2</sub>;

or a pharmaceutically acceptable salt thereof.

- 2. (Original) A compound according to claim 1 wherein  $R^1$  is F, Cl, OCH<sub>3</sub>, methyl, or SCH<sub>3</sub>.
- 3. (Currently amended) A compound according to claim 1 wherein R<sup>1a</sup> is H, OCH<sub>3</sub>, or OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>.

- 4. (Original) A compound according to claim 1 wherein  $R^{\mbox{\scriptsize 1b}}$  is H or F.
- 5. (Original) A compound according to claim 1 wherein R<sup>1c</sup> is CI or F.
- 6. (Original) A compound according to claim 1 wherein  $\mathbb{R}^3$  is H, OH, OCH3, or CH2OH.
- 7. (Original) A compound according to claim 1 wherein R<sup>6</sup> is H or OH.
- 8. (Original) A compound according to claim 1 wherein the group -U- is -CH<sub>2</sub>-.
- 9. (Currently amended) A compound according to claim 1 wherein R<sup>5</sup> is: benzo[1,2,5]thiadiazol-5-yl;

4H-benzo[1,4] thiazin-3-one-6-yl;

2,3-dihydro-benzo[1,4]dioxin-6-yl;

benzo[1,2,3]thiadiazol-5-yl;

3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl;

7-fluoro-3-oxo-3,4-dihydro-2H-benzo[1,4] oxazin-6-yl;

 $2\hbox{-}oxo\hbox{-}2,3\hbox{-}dihydro\hbox{-}1H\hbox{-}pyrido[2,3\hbox{-}b][1,4]thiazin\hbox{-}7-yl;}\\$ 

2,3-Dihydro-[1,4]dioxino[2,3-c]pyridin-7-yl;

3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazin-6-yl;

[1,2,3]thiadiazolo[5,4-b]pyridin-6-yl;

3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl;

7-chloro-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl; er

7-fluoro-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl; or

2-oxo-2,3-dihydro-1H-pyrido[3,4-b][1,4]thiazin-7-yl.

- 10. (Currently amended) A compound according to claim 1 which is <u>selected</u> from:
- 6-({1-[(Racemic)-2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-2-hydroxy-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one Dihydrochloride;

(Racemic)-1-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-2-{4-[(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-piperidin-1-yl}-ethanol Dihydrochloride;

{1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-piperidin-4-yl}-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amine Dihydrochloride;

{1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-piperidin-4-yl}-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amine Dihydrochloride;

6-({(cis)-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one Dihydrochloride Enantiomer 1;

6-({(cis)-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one Dihydrochloride Enantiomer 2;

6-({(cis)-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride Enantiomer 1;

6-({(cis)-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride Enantiomer 2;

6-({(cis)-1-[2-(3-Chloro-6-methoxy- [1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one Dihydrochloride Enantiomer 1;

6-({(cis)-1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one Dihydrochloride Enantiomer 2;

6-({(cis)-1-[2-(3-Chloro-6-methoxy- [1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride Enantiomer 1;

6-({(cis)-1-[2-(3-Chloro-6-methoxy- [1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride Enantiomer 2;

6-({1-[2-(3-Chloro-6-methoxyquinolin-4-yl)ethyl]piperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Trihydrochloride;

6-({1-[2-(3-chloro-6-methoxyquinolin-4-yl)ethyl]piperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Trihydrochloride;

6-({1-[2-(3-Chloro-6-methoxynaphthyridin-4-yl)ethyl]piperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Dihydrochloride;

6-({1-[2-(3-chloro-6-methoxynaphthyridin-4-yl)ethyl]piperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Dihydrochloride;[[.]]

6-({(trans)-1-[2-(3-Chloro-6-methoxyquinolin-4-yl)ethyl]3-hydroxypiperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Trihydrochloride enantiomer 2;

6-({(trans)-1-[2-(3-Chloro-6-methoxyquinolin-4-yl)ethyl]3-hydroxypiperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Trihydrochloride enantiomer 2;

6-(trans)-1-[2-(3-Chloro-6-methoxyquinolin-4-yl)ethyl]3-hydroxypiperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Trihydrochloride enantiomer 1;

6-(trans)-1-[2-(3-Chloro-6-methoxyquinolin-4-yl)ethyl]3-hydroxypiperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one Trihydrochloride enantiomer 1;

6-({1-[2-(3-Chloro-6-methoxyquinolin-4-yl)ethyl]4-hydroxymethylpiperidin-4-ylamino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one Dihydrochloride;

6-({1-[2-(3-Chloro-6-fluoro-5-methoxy-quinolin-4-yl)-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride;

6-({1-[2-(3-Chloro-6-methyl-[1,5]naphthyridin-4-yl)-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride;

{1-[2-(3-Chloro-6-methyl-[1,5]naphthyridin-4-yl)-ethyl]-piperidin-4-yl}-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amine Dihydrochloride;

6-({1-[2-(3-Chloro-6-fluoro-quinolin-4-yl)-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride;

{1-[2-(3-Chloro-6-fluoro-quinolin-4-yl)-ethyl]-piperidin-4-yl}-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amine Dihydrochloride;

6-({1-[2-(3, 6-Dichloro-quinolin-4-yl)-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride;

{1-[2-(3,6-Dichloro-quinolin-4-yl)-ethyl]-piperidin-4-yl}-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl-amine Dihydrochloride;

(cis)-1-[2-(3-Chloro-6-methoxy- [1,5]naphthyridin-4-yl)-ethyl]-4-[(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-piperidin-3-ol Dihydrochloride Enantiomer 1;

(cis)-1-[2-(3-Chloro-6-methoxy- [1,5]naphthyridin-4-yl)-ethyl]-4-[(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-piperidin-3-ol Dihydrochloride Enantiomer 2;

6-({1-[2-(3-Fluoro-6-methoxyquinolin-4-yl)ethyl]piperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]thiazin-3-one dihydrochloride;

{1-[2-(3-Fluoro-6-methoxy-quinolin-4-yl)-ethyl]-piperidin-4-yl}-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amine dihydrochloride;

cis-4-[(2,3-Dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-1-[2-(3-fluoro-6-methoxy-quinolin-4-yl)-ethyl]-piperidin-3-ol Enantiomer 2 dihydrochloride;

cis-4-[(2,3-Dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-1-[2-(3-fluoro-6-methoxy-quinolin-4-yl)-ethyl]-piperidin-3-ol dihydrochloride dihydrochloride Enantiomer 1;

{1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-2-hydroxyethyl]-piperidin-4-yl}-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amine Dihydrochloride Enantiomer 1;

6-({1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-2-hydroxy-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride Enantiomer 1;

6-({1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-2-hydroxy-ethyl]-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b][1,4]thiazin-3-one Dihydrochloride Enantiomer 2;

4-yl} (2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amine Enantiomer 2;

(trans)-6-({(1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b] [1,4]-thiazin-3-one Dihydrochloride Enantiomer 2;

trans-6-({1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b] [1,4] oxazin-3-one Trihydrochloride Enantiomer 2;

trans-6-({1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b] [1,4] thiazin-3-one dihydrochloride Enantiomer 1;

6-({(3R,4r,5S)-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-3,5-dihydroxy-piperidin-4-ylamino)}-methyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one dihydrochloride;

6-({1-[2-(3-Fluoro-6-methoxyquinolin-4-yl)ethyl]piperidin-4-yl amino}methyl)-4*H*-pyrido[3,2-*b*][1,4]oxazin-3-one dihydrochloride;

{1-[2-(3-Bromo-6-methoxy-quinolin-4-yl)-ethyl]-piperidin-4-yl}-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amine Dihydrochloride;

cis-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-4-[(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-piperidin-3-ol Dihydrochloride Enantiomer 1;

cis-1-[2-(3-Chloro-6-methoxy-quinolin-4-yl)-ethyl]-4-[(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-piperidin-3-ol Dihydrochloride Enantiomer 2;

1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-*N*-(2,3-dihydro[1,4]dioxino[2,3-*c*]pyridin-7-ylmethyl)-4-piperidinamine dihydrochloride;

 $7-\{[(1-\{2-[3,8-Difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-4-piperidinyl)amino]methyl\}-1H-pyrido[2,3-b][1,4]thiazin-2(3H)-one dihydrochloride;$ 

6-{[(1-{2-[3,8-Difluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinyl)amino]methyl}-2*H*-pyrido[3,2-*b*][1,4]oxazin-3(4*H*)-one dinydrochloridedihydrochloride;

 $6-\{[(1-\{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride;$ 

 $1-\{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-N-([1,3]dioxolo[4,5-c]pyridin-6-ylmethyl)-4-piperidinamine dihydrochloride;$ 

{1-[2-(9-Chloro-2,3-dihydro-[1,4]dioxino[2,3-f]quinolin-10-yl)-ethyl]-piperidin-4-yl}-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amine dihydrochloride;

*N*-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine dihydrochloride;

N-(2,3-Dihydro-1H-pyrido[3,4-b][1,4]thiazin-7-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine dihydrochloride;

 $6-\{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride;$ 

 $7-\{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-4-piperidinyl)amino]methyl\}-1\\ H-pyrido[2,3-b][1,4]thiazin-2(3\\ H)-one dihydrochloride;$ 

3-{[(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinyl)amino]methyl}-8-hydroxy-1(2*H*)-isoquinolinone dihydrochloride;

3-{[(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinyl)amino]methyl}-5*H*-pyridazino[3,4-*b*][1,4]thiazin-6(7*H*)-one dihydrochloride;

6-{[(1-{2-[3-Fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride;

N-(2,3-Dihydro[1,4]oxathiino[2,3-c]pyridin-7-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine dihydrochloride;

1-{2-[3-Fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-*N*- ([1,3]oxathiolo[5,4-*c*]pyridin-6-ylmethyl)-4-piperidinamine dihydrochloride;

7-Fluoro-*N*-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4- yl]ethyl}-4-piperidinyl)-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazine-6-carboxamide dihydrochloride;

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinyl)-2-oxo-2,3-dihydro-1H-pyrido[2,3-b][1,4]thiazine-7-carboxamide dihydrochloride;

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazine-6-carboxamide;

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazine-6-carboxamide;

(3R,4S)-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinol dihydrochloride Enantiomer 1;

 $6-\{[((3R,4S)-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride;$ 

 $6-\{[((3R,4S)-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one_dihydrochloride;$ 

 $(3R,4S)-4-[(2,3-\text{dihydro}[1,4]\text{dioxino}[2,3-b]\text{pyridin-7-ylmethyl})\text{amino}]-1-\{2-[3-\text{fluoro-6-(methoxy})-1,5-\text{naphthyridin-4-yl}]\text{ethyl}\}-3-\text{piperidinol dihydrochloride};$ 

 $6-\{[((3S,4R)-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer 2;$ 

N-((3S,4R)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazine-6-carboxamide hydrochloride Enantiomer 2;

7-{[((3*R*,4*S*)-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-hydroxy-4-piperidinyl)amino]methyl}-1*H*-pyrido[2,3-*b*][1,4]thiazin-2(3*H*)-one dihydrochloride Enantiomer 1:

 $6-\{[((3R,4S)-1-\{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer 1;$ 

(3R,4S)-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol dihydrochloride dihydrochloride Enantiomer 1;

1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-*N*-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-ylmethyl)-4-piperidinamine dihydrochloride;

*N*-(3-cinnolinylmethyl)-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinamine dihydrochloride;

N-(2,1,3-benzothiadiazol-5-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinamine dihydrochloride;

1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-*N*-([1,3]thiazolo[5,4-*b*]pyridin-6-ylmethyl)-4-piperidinamine dihydrochloride;

N-(3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinamine dihydrochloride;

N-(1,3-benzothiazol-5-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinamine dihydrochloride;

1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-*N*-([1,2,3]thiadiazolo[5,4-*b*]pyridin-6-ylmethyl)-4-piperidinamine dihydrochloride;

 $7-\{[(1-\{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl\}-4-piperidinyl)amino]methyl\}-1\\ H-pyrido[2,3-b][1,4]thiazin-2(3\\ H)-one dihydrochloride;$ 

N-(2,3-dihydro[1,4]dioxino[2,3-b]pyridin-7-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinamine dihydrochloride;

N-(2,3-dihydro[1,4]oxathiino[2,3-c]pyridin-7-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinamine dihydrochloride;

4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-N-methyl-4-piperidinecarboxamide dihydrochloride;

4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinecarboxamide dihydrochloride;

4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-*N*-methyl-4-piperidinecarboxamide dihydrochloride;

4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinecarboxamide dihydrochloride;

1-{2-[3-chloro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-4-piperidinecarboxamide dihydrochloride;

(4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinyl)methanol dihydrochloride;

N-[1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-(hydroxymethyl)-4-piperidinyl]-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazine-6-carboxamide hydrochloride;

N-(1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazine-6-carboxamide hydrochloride;

N-(1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazine-6-carboxamide hydrochloride;

 $7-\{[((3R,4S)-1-\{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-1H-pyrido[2,3-b][1,4]thiazin-2(3H)-one dihydrochloride Enantiomer 1;$ 

 $6-\{[((3R,4S)-1-\{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer 1;$ 

 $(3R,4S)-1-\{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]ethyl\}-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol dihydrochloride;$ 

2-{4-[(2,3-Dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethanol Dihydrochloride Hydrate Enantiomer 1;

2-{4-[(2,3-Dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethanol Dihydrochloride Hydrate Enantiomer 2;

racemic, cis 4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinyl)methanol dihydrochloride;

racemic, cis-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinecarboxylic acid dihydrochloride;

racemic, cis-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinecarboxamide dihydrochloride;

1-{2-[3-chloro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-*N*-[(6-oxido-2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-yl)methyl]-4-piperidinamine dihydrochloride;

 $6-\{[(1-\{2-[3-chloro-6-(methoxy)-1,5-naphthyridin-4-yl]-3-hydroxypropyl\}-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride;$ 

 $6-[({1-[2-(3,6-difluoro-4-quinolinyl)ethyl}]-4-piperidinyl}amino)methyl]-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride;$ 

1-[2-(3,6-difluoro-4-quinolinyl)ethyl]-*N*-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-4-piperidinamine hydrochloride dihydrochloride;

 $6-[({1-[2-(3,6-difluoro-4-quinolinyl)ethyl}]-4-piperidinyl}amino)methyl]-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride;$ 

 $6-\{[(1-\{2-[3-chloro-6-fluoro-5-(methoxy)-4-quinolinyl]-1-methylethyl\}-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride;$ 

1-{2-[3-chloro-6-fluoro-5-(methoxy)-4-quinolinyl]ethyl}-*N*-(2,3-dihydro[1,4]dioxino[2,3-*c*]pyridin-7-ylmethyl)-4-piperidinamine dihydrochloride;

1-[2-(6-chloro-3-fluoro-4-quinolinyl)ethyl]-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-*N*-methyl-4-piperidinecarboxamide dihydrochloride;

2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-4-quinolinyl]ethanol dihydrochloride Enantiomer 2;

 $6-\{[trans-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer E2;$ 

6-{[trans-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride Enantiomer E2;

trans-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinol dihydrochloride Enantiomer E2;

 $6-\{[trans-1-\{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one-dihydrochloride Enantiomer E2;$ 

trans-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-piperidinol dihydrochloride;

*N-trans*-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-4-piperidinyl)-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazine-6-carboxamide hydrochloride Enantiomer E2;

*N-trans*-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-4-piperidinyl)-2,3-dihydro[1,4]dioxino[2,3-c]pyridine-7-carboxamide hydrochloride Enantiomer E2;

 $racemic,\ trans\ -6-\{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-3-methyl-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride;$ 

Trans-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-methyl-3-piperidinol dihydrochloride;

 $6-\{[trans-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-methyl-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer E1;$ 

Trans-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-methyl-3-piperidinol dihydrochloride;

 $6-\{[trans-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-methyl-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer E2;$ 

Trans-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-methyl-3-piperidinol dihydrochloride;

N-(3,4-dihydro-2*H*-pyrano[2,3-*c*]pyridin-6-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine dihydrochloride;

\_\_\_\_\_7-{[(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinyl)amino]methyl}-2,3-dihydro-1,5-benzothiazepin-4(5H)-one;

trans-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinol dihydrochloride Enantiomer E1;

trans-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-piperidinol dihydrochloride;

trans-6-{[(1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-hydroxy-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride;

trans-N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-4-piperidinyl)-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazine-6-carboxamide hydrochloride Enantiomer E1;

trans-N-((3R,4R)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazine-6-carboxamide Isomer E1 hydrochloride;

trans-*N*-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-4-piperidinyl)-2,3-dihydro[1,4]dioxino[2,3-c]pyridine-7-carboxamide Isomer E1 hydrochloride;

 $6-\{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-4-methyl-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride;$ 

 $6-\{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-4-methyl-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride;$ 

cis-6-{[(1-{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-fluoro-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer 1;

cis-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-N-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-3-fluoro-4-piperidinamine dihydrochloride Enantiomer1;

*cis*-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-*N*-(2,3-dihydro[1,4]dioxino[2,3-*c*]pyridin-7-ylmethyl)-3-fluoro-4-piperidinamine dihydrochloride Enantiomer 2;

cis-6-{[(1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-fluoro-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride, Enantiomer 1;

cis-6-{[(1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-fluoro-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride, Enantiomer 2;

cis-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-*N*-(2,3-dihydro-1,4-benzodioxin-6-ylmethyl)-3-fluoro-4-piperidinamine dihydrochloride, Enantiomer 1; cis-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-*N*-(2,3-dihydro-1,4-

benzodioxin-6-ylmethyl)-3-fluoro-4-piperidinamine dihydrochloride, Enantiomer 2;

cis-6-{[(-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-fluoro-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride, Enantiomer 1;

cis-6-{[(-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-fluoro-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride, Enantiomer 2;

 $cis-N-(1-\{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-3-fluoro-4-piperidinyl)-3-oxo-3,4-dihydro-2<math>H$ -pyrido[3,2-b][1,4]thiazine-6-carboxamide hydrochloride Enantiomer 1;

 $6-\{[((3S,4R)-1-\{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer E2;$ 

trans-6-({1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b] [1,4] oxazin-3-one trihydrochloride Enantiomer 1;

trans-1-{2-[3-chloro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol-Enantiomer-1;
trans-1-{2-[3-chloro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol-Enantiomer-2;

2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-4-quinolinyl]ethanol dihydrochloride Enantiomer 1;

 $(3S,4R)-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-piperidinol dihydrochloride Enantiomer 2;$ 

(3R,4S)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4- [([1,3]oxathiolo[5,4-c]pyridin-6-ylmethyl)amino]-3-piperidinol dihydrochloride Enantiomer E1;

6-{[(1-{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-pyrido[3,2-b][1,4]thiazin-3(4H)-one;

\_\_\_\_\_1-{2-[3-chloro-8-fluoro-6 (methoxy) 4-quinolinyl]othyl}-N (2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-4-piperidinamine;

(3S,4R)-1-[2-(3,6-dichloro-4-quinolinyl)ethyl]-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol dihydrochloride Enantiomer E2;

6-[(((3S,4R)-1-[2-(3,6-dichloro-4-quinolinyl)ethyl]-3-hydroxy-4-piperidinyl]amino)methyl]-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer E2;

(3S,4R)-1-[2-(3-chloro-6-fluoro-4-quinolinyl)ethyl]-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol dihydrochloride Enantiomer E2;

 $6-[({(3S,4R)-1-[2-(3-chloro-6-fluoro-4-quinolinyl)ethyl]-3-hydroxy-4-piperidinyl}amino)methyl]-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer E2;$ 

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-methyl-4-piperidinyl)-2,3-dihydro[1,4]dioxino[2,3-c]pyridine-7-carboxamide dihydrochloride;
——N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-methyl-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]exazine-6-carboxamide;
——N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-methyl-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazine-6-carboxamide;

 $trans - 6 - \{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-3-methyl-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride Enantiomer E1;$ 

 $trans - 6 - \{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-3-methyl-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer E1;$ 

 $trans-6-\{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-3-methyl-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one dihydrochloride Enantiomer E2;$ 

trans-6-{[(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-3-methyl-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer E2;

trans-4-[(2,3-dihydro-1,4-benzodioxin-6-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-piperidinol hydrochloride Enantiomer E1;

trans -4-[(2,3-dihydro-1,4-benzodioxin-6-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinol dihydrochloride Enantiomer E2;

trans -4-[(2,3-dihydro-1,4-benzodioxin-6-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinol dihydrochloride Enantiomer E1;

 $(3S,4R)-1-\{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol dihydrochloride Enantiomer E2;$ 

(3S,4R)-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-[(2,3-dihydro-1,4-benzodioxin-6-ylmethyl)amino]-3-piperidinol dihydrochloride Enantiomer E2;

N-(2,3-dihydro-1-benzofuran-5-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine dihydrochloride;

6-{[(1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]-2-hydroxyethyl}-4-piperidinyl)amino]methyl}-2*H*-pyrido[3,2-*b*][1,4]oxazin-3(4*H*)-one dihydrochloride Enantiomer E1;

6-{[(1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]-2-hydroxyethyl}-4-piperidinyl)amino]methyl}-2*H*-pyrido[3,2-*b*][1,4]oxazin-3(4*H*)-one dihydrochloride Enantiomer E2;

6-{[(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]-2-hydroxyethyl}-4-piperidinyl)amino]methyl}-2*H*-pyrido[3,2-*b*][1,4]oxazin-3(4*H*)-one dihydrochloride Enantiomer E2;

6-{[(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]-2-hydroxyethyl}-4-piperidinyl)amino]methyl}-2*H*-pyrido[3,2-*b*][1,4]oxazin-3(4*H*)-one dihydrochloride Enantiomer E1;

6-{[(1-{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]-2-hydroxyethyl}-4-piperidinyl)amino]methyl}-2*H*-pyrido[3,2-*b*][1,4]oxazin-3(4*H*)-one dihydrochloride Enantiomer E1;

6-{[(1-{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]-2-hydroxyethyl}-4-piperidinyl)amino]methyl}-2*H*-pyrido[3,2-*b*][1,4]oxazin-3(4*H*)-one dihydrochloride Enantiomer E2;

1-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]-2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}ethanol dihydrochloride Enantiomer E1;

1-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]-2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}ethanol dihydrochloride Enantiomer E2;

1-[3,8-difluoro-6-(methoxy)-4-quinolinyl]-2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}ethanol dihydrochloride Enantiomer E2;

1-[3,8-difluoro-6-(methoxy)-4-quinolinyl]-2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}ethanol dihydrochloride Enantiomer E1;

1-[3-chloro-6-(methoxy)-4-quinolinyl]-2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}ethanol dihydrochloride Enantiomer E2;

1-[3-chloro-6-(methoxy)-4-quinolinyl]-2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}ethanol dihydrochloride Enantiomer E1;

1-[3-chloro-6-(methoxy)-1,5-naphthyridin-4-yl]-2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}ethanol dihydrochloride Enantiomer E2;

2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-fluoro-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethanol dihydrochloride Enantiomer E2;

2-{4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-fluoro-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethanol dihydrochloride Enantiomer E1; and

7-{[(1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-fluoro-4-piperidinyl)amino]methyl}-1H-pyrido[2,3-b][1,4]thiazin-2(3H)-one dihydrochloride Enantiomer E2 $_{\underline{\cdot}}$ ;

1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl} N-{[8-(methoxy)-2,3-dihydro-1,4-benzodioxin-6-yl]methyl}-4-piperidinamine; and -1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-N-[(7-methyl-2,3-dihydro-1,4-benzodioxin-6-yl)methyl]-4-piperidinamine; or a pharmaceutically acceptable salt thereof.

11. (Currently amended) A process for preparing compounds of formula (I), and pharmaceutically acceptable derivatives thereof, which process comprises reacting a compound of formula (IV) with a compound of formula (V):

$$R^{1} \xrightarrow{X} R^{1c}$$

$$Q^{2}$$

$$R^{3}$$

$$(IV)$$

$$(V)$$

wherein Z¹', R¹',R¹b', R¹c' and R³' are Z¹, R¹, R¹b, R¹c and R³ as defined in formula (I) or groups convertible thereto; Q¹ is NHR⁴' or a group convertible thereto wherein R⁴' is R⁴ as defined in formula (I) or groups convertible thereto and Q² is H or R³' or Q¹ and Q² together form an optionally protected oxo group;

- (i) X is A'-COW, Y is H;
- (ii) X is CH=CH2, Y is H;
- (iii) X is oxirane, Y is H;
- (iv) one of X and Y is  $CO_2R^y$  and the other is  $CH_2CO_2R^x$ ; in which W is a leaving group, e.g. halo or imidazelyl;  $R^x$  and  $R^y$  are  $(C_{1-4})$ alkyl; A' is A as defined in formula (I), or groups convertible thereto; and oxirane is:

and thereafter optionally or as necessary converting  $Q^1$  and  $Q^2$  to NHR<sup>4</sup>; converting A', Z¹'R¹', R¹b', R¹c', R³', and R⁴' to A, Z¹, R¹, R¹b, R¹c, R³, and R⁴; converting A-B to other A-B, interconverting R¹, [[,]] R¹b, R¹c, R³, and/or R⁴, and/or forming a pharmaceutically acceptable derivative thereof.

- 12. (Original) A pharmaceutical composition comprising a compound according to claim 1 and a pharmaceutically acceptable carrier.
- 13. (Currently amended) A method of treating bacterial infections in mammals which comprises administrating administering to a mammal in need thereof an effective amount of a compound according to claim 1.
- 14. (New) A compound according to claim 1 wherein  $R^5$  is an aromatic heterocyclic ring (A) having 8-11 ring atoms including 2-4 heteroatoms of which at least one is N or NR<sup>13</sup>, and Y<sup>2</sup> contains 2-3 heteroatoms, one of which is S and 1-2 are N, with one N bonded to  $X^3$ .
- 15. (New) A compound according to claim 1 wherein  $R^5$  is a heterocyclic ring (A) having ring (a) aromatic selected from optionally substituted benzo and pyrido and ring (b) non-aromatic and  $Y^2$  has 3-5 atoms including a heteroatom bonded to  $X^5$  selected from NR<sup>13</sup>, O and S and NHCO bonded via N to  $X^3$ , or O bonded to  $X^3$ .

16. (New) A compound according to claim 1 wherein  $R^5$  is:

2,3-Dihydro-[1,4]dioxino[2,3-c]pyridin-7-yl;

3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazin-6-yl; or

3-oxo-3, 4-dihydro-2*H*-pyrido[3, 2-b][1, 4] thiazin-6-yl.

### 17. (New) A compound according to formula (I):

$$R^{1}$$
 $R^{1c}$ 
 $R^{1c}$ 

wherein:

Z<sub>1</sub> is N or CR<sup>1a</sup>;

 $R^1$  is F, Cl, OCH<sub>3</sub>, methyl, or SCH<sub>3</sub>;

 $\mathsf{R}^{\mathsf{1a}}\:\mathsf{is}\:\mathsf{H},\:\mathsf{OCH}_3,\:\mathsf{or}\:\mathsf{OCH}_2\mathsf{CH}_2\mathsf{OCH}_3;$ 

 $\mathsf{R}^{1b}$  is H or F; with the proviso that when  $\mathsf{Z}_1$  is N, then  $\mathsf{R}^{1b}$  is H;

R<sup>1c</sup> is Cl or F;

 ${\sf R}^3$  is up to two substituents selected from H, OH, OCH3, and CH2OH;

AB is CHR<sup>6</sup>-CO or CHR<sup>6</sup>-CH<sub>2</sub>;

 $\mathsf{R}^6$  is H,  $\mathsf{NH}_2$ , - $\mathsf{CH}_2\mathsf{OH}$ , or hydroxy; and

 $\mathsf{R}^4$  is a group -U-R  $^5$  where U is  $\mathsf{CH}_2$  and  $\mathsf{R}^5$  is:

benzo[1,2,5]thiadiazol-5-yl;

4H-benzo[1,4] thiazin-3-one-6-yl;

2,3-dihydro-benzo[1,4]dioxin-6-yl;

benzo[1,2,3]thiadiazol-5-yl;

3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl;

7-fluoro-3-oxo-3,4-dihydro-2H-benzo[1,4] oxazin-6-yl;

2-oxo-2,3-dihydro-1H-pyrido[2,3-b][1,4]thiazin-7-yl;

2,3-Dihydro-[1,4]dioxino[2,3-c]pyridin-7-yl;

3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazin-6-yl;

[1,2,3]thiadiazolo[5,4-b]pyridin-6-yl;

3-oxo-3,4-dihydro-2*H*-pyrido[3,2-b][1,4]thiazin-6-yl;

7-chloro-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl;

7-fluoro-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl; or

2-oxo-2,3-dihydro-1H-pyrido[3,4-b][1,4]thiazin-7-yl;

or a pharmaceutically acceptable salt thereof.

18. (New) A compound according to claim 1 selected from:

{6-(trans)-1-[2-(3-Chloro-6-methoxyquinolin-4-yl)ethyl]-3-hydroxypiperidin-4-yl}-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amine Enantiomer 2;

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4- piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazine-6-carboxamide;

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazine-6-carboxamide;

N-[(4-fluoro-1*H*-benzimidazol-2-yl)methyl]-1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinamine;

{[(1-{2-[3-Fluoro-6-(methoxy-5-naphthyridin-4-yl]ethyl}-4-

piperidinyl)amino]methyl}-3,4-dihydro-1,8-naphthyridin-2-(1H)-one;

 $7-\{[(1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-4-piperidinyl)amino]methyl\}-2,3-dihydro-1,5-benzothiazepin-4(5H)-one;$ 

trans-6-{[(1-{2-[3-fluoro-6-(methoxy)-4-quinolinyl]ethyl}-3-hydroxy-4-

piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one Enantiomer E1;

6-{[trans-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-hydroxy-4-piperidinyl)amino]methyl}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one Enantiomer E1;

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-methyl-4-

piperidinyl)-2,3-dihydro-1,4-benzodioxin-6-sulfonamide;

trans-1-{2-[3-chloro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-[(2,3-

dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol Enantiomer 1;

trans-1-{2-[3-chloro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-[(2,3-

dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol Enantiomer 2;

N-(2,3-dihydro-1,4-benzodioxin-6-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine;

 $6-\{[(1-\{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]ethyl\}-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one;$ 

 $1-\{2-[3-chloro-8-fluoro-6-(methoxy)-4-quinolinyl]ethyl\}-\textit{N-}(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-4-piperidinamine;$ 

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-methyl-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazine-6-carboxamide;

N-(1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-methyl-4-piperidinyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazine-6-carboxamide;

 $1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-\textit{N-}\{[8-(methoxy)-2,3-dihydro-1,4-benzodioxin-6-yl]methyl\}-4-piperidinamine;$ 

1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-*N*-[(7-methyl-2,3-dihydro-1,4-benzodioxin-6-yl)methyl]-4-piperidinamine; and pharmaceutically acceptable salts thereof.

# 19. (New) A compound according to claim 1 selected from:

cis-4-[(2,3-Dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-1-[2-(3-fluoro-6-methoxy-quinolin-4-yl)-ethyl]-piperidin-3-ol Enantiomer 1;

(trans)-6-({(1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b] [1,4]-thiazin-3-one Enantiomer 2;

 $1-\{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-\textit{N-}(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-4-piperidinamine;$ 

 $6-\{[(1-\{2-[3,8-Difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one;$ 

N-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine;

 $(3R,4S)-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-3-piperidinol Enantiomer 1;$ 

 $6-\{[((3S,4R)-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one Enantiomer 2;$ 

(3R,4S)-1- $\{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]$ ethyl $\}$ -4- $\{(2,3-dihydro[1,4]dioxino[2,3-c]$ pyridin-7-ylmethyl $\}$ -amino]-3-piperidinol Enantiomer 1; and

2-{4-[(2,3-Dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethanol Enantiomer 1.

20. (New) A compound according to claim 1 which is a pharmaceutically acceptable salt of:

cis-4-[(2,3-Dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-1-[2-(3-fluoro-6-methoxy-quinolin-4-yl)-ethyl]-piperidin-3-ol Enantiomer 1;

(trans)-6-({(1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b] [1,4]-thiazin-3-one Enantiomer 2;

 $1-\{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-N-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-4-piperidinamine;$ 

 $6-\{[(1-\{2-[3,8-Difluoro-6-(methoxy)-4-quinolinyl]ethyl\}-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]oxazin-3(4H)-one;$ 

N-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-1-{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine;

 $(3R,4S)-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-\{2-[3-dihydro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-piperidinol Enantiomer 1;$ 

 $6-\{[((3S,4R)-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one Enantiomer 2;$ 

(3R,4S)-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol Enantiomer 1; or 2-{4-[(2,3-Dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethanol Enantiomer 1.

## 21. (New) A compound according to claim 1 selected from:

cis-4-[(2,3-Dihydro-[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-amino]-1-[2-(3-fluoro-6-methoxy-quinolin-4-yl)-ethyl]-piperidin-3-ol dihydrochloride Enantiomer 1; (trans)-6-({(1-[2-(3-Chloro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-3-hydroxy-piperidin-4-ylamino}-methyl)-4H-pyrido[3,2-b] [1,4]-thiazin-3-one Dihydrochloride Enantiomer 2;

1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-*N*-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-4-piperidinamine dihydrochloride; 6-{[(1-{2-[3,8-Difluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-piperidinyl)amino]methyl}-2*H*-pyrido[3,2-*b*][1,4]oxazin-3(4*H*)-one dihydrochloride;

N-(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)-1-{2-[3-fluoro-6-

(methoxy)-1,5-naphthyridin-4-yl]ethyl}-4-piperidinamine dihydrochloride;

 $(3R,4S)-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-\{2-[3-dinydro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-piperidinol dihydrochloride Enantiomer 1;$ 

 $6-\{[((3S,4R)-1-\{2-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethyl\}-3-hydroxy-4-piperidinyl)amino]methyl\}-2H-pyrido[3,2-b][1,4]thiazin-3(4H)-one dihydrochloride Enantiomer 2;$ 

(3R,4S)-1-{2-[3,8-difluoro-6-(methoxy)-4-quinolinyl]ethyl}-4-[(2,3-dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-3-piperidinol dihydrochloride Enantiomer 1; and

2-{4-[(2,3-Dihydro[1,4]dioxino[2,3-c]pyridin-7-ylmethyl)amino]-1-piperidinyl}-1-[3-fluoro-6-(methoxy)-1,5-naphthyridin-4-yl]ethanol Dihydrochloride Hydrate Enantiomer 1.

22. (New) A method according to claim 13 wherein the mammal is a human.